Preliminary Plans Presentation

New School

SAMPLE Elementary School

Prepared for
Montgomery County Board of Education

September 2015

Sample Elementary School

Street Address
_____, Maryland, 208xx

Montgomery County Board of Education

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Mr. Seth A. Adams	Director, Division of Construction
Mr. Michael P. Shpur	Architect, Division of Construction
Mr. _____	Project Manager, Division of Construction
Ms. _____	Facility Planner, Division of Long-range Planning

Involvement

The preliminary plans for the Sample Elementary School were developed based on the educational specifications prepared by Montgomery County Public Schools (MCPS). Through a series of public meetings, several design alternatives were developed and evaluated. The proposed plans presented herein were reviewed and subsequently modified in accordance with recommendations and suggestions received during the schematic design meetings.

Participants in Facility Advisory Process

Background/History

Location: Street Address, Rockville, Maryland, 20852

Cluster: High School Cluster

History and Square Footage of Existing Building:

Site Size: 10.9 acres

Program and Planning Objectives

The purpose of this project is to construct a new elementary school to accommodate enrollment growth in the _____ cluster. The Sample Elementary School will be designed with a capacity 737 students with a core capacity or a core capacity for 740 students. The flexible building design for the school will accommodate current and future elementary school programs and delivery models. A philosophy of adaptable classrooms will facilitate various presentation formats and learning activities. Interactive education computer technology has been incorporated in the plan. Furniture that is easily reconfigurable will be provided to maximize flexibility throughout the school.

The building and site design will include the following:

- A well-defined and welcoming entrance with access control and supervision;
- Clear internal circulation with simple way finding;
- After-hours community use of the gymnasium, multipurpose room, and instructional media center that can be secured from the rest of the building
- Separation of vehicular and pedestrian traffic on site

If there are any planning issues, then include them in a separate paragraph here.

Teaching Stations and Spaces Provided When Complete

(Number of teaching stations calculated in the program capacity is indicated within parentheses)

Classrooms:	
Kindergarten Classrooms	(5)
Standard Classrooms (Grades 1–5)	(30)
Preschool Education Program (PEP)	(3)
Music	1
Dual Purpose Room	1
Art	1
Core Facilities:	
Administrative Suite	1
Health Suite	1
Multipurpose Room with Platform	1
Kitchen	1
Library Media Center	1
Gymnasium	1
Total Teaching Stations	**(30)**

Support Spaces:	
Speech/Language Room	1
Instrumental Music	1
Therapy/Support Room	1
Large Instructional Support Room	1
Small Instructional Supp9ort Room	2
Testing Conference Room	1
Instructional Data Assistant Office	1
Support Staff Offices	2
Counselor's Office	1
Itinerant Staff Office	1
Staff Development Office	1
Reading Specialist Office	1
Training/Conference Room	1
Workroom	2
Staff Lounge	1
Conference Room	1
Building Services Suite	1
Compactor Room	1
General Storage	4
PTA Storage	1
Outdoor Storage	1

Building Design

General Description:

The proposed building repeats the design concept from the _____and _____elementary schools and is adapted to meet program objectives and site adjustments. The new school will be a partial two-story building with steel-frame structure and brick and metal cladding on exterior facades.

The main entrance to the building is clearly identifiable from _____Drive. The administrative suite is located at the front of the building to allow supervision of the main entrance, lobby, and the bus loop. The secondary entrance, off _____Lane, can be used for access to the gymnasium and the multi-purpose room after school hours and is connected by a walkway to the parking lot for use by the community.

The academic classrooms are clustered and located on two floor levels. The classrooms on the first level include Preschool Education Program (PEP), prekindergarten through grade two and classrooms on the second floor level include grade three through grade five.

Classroom Technology:

Classrooms will be designed with wireless network access and interactive whiteboard systems to support the interactive and mobile technologies that allow students to participate in technology enriched learning. The mobile technology will support flexibility to reconfigure classrooms and learning throughout the instructional day. Full building wireless technology will enable schools to access digital content, curricular, and instructional resources with greater flexibility and efficiency.

Code Compliance/Accessibility:

All areas in the school will be designed to meet national and local codes including fire, life-safety, accessibility, and health standards. The proposed building will be in full compliance with the *Americans with Disabilities Act (ADA).* The proposed building will be in compliance with the Maryland Emergency Management Agency (MEMA) Emergency Shelter Compliance Procedure as required under the *Code of Maryland Regulations* (COMAR).

Building Design (continued)

Mechanical Systems

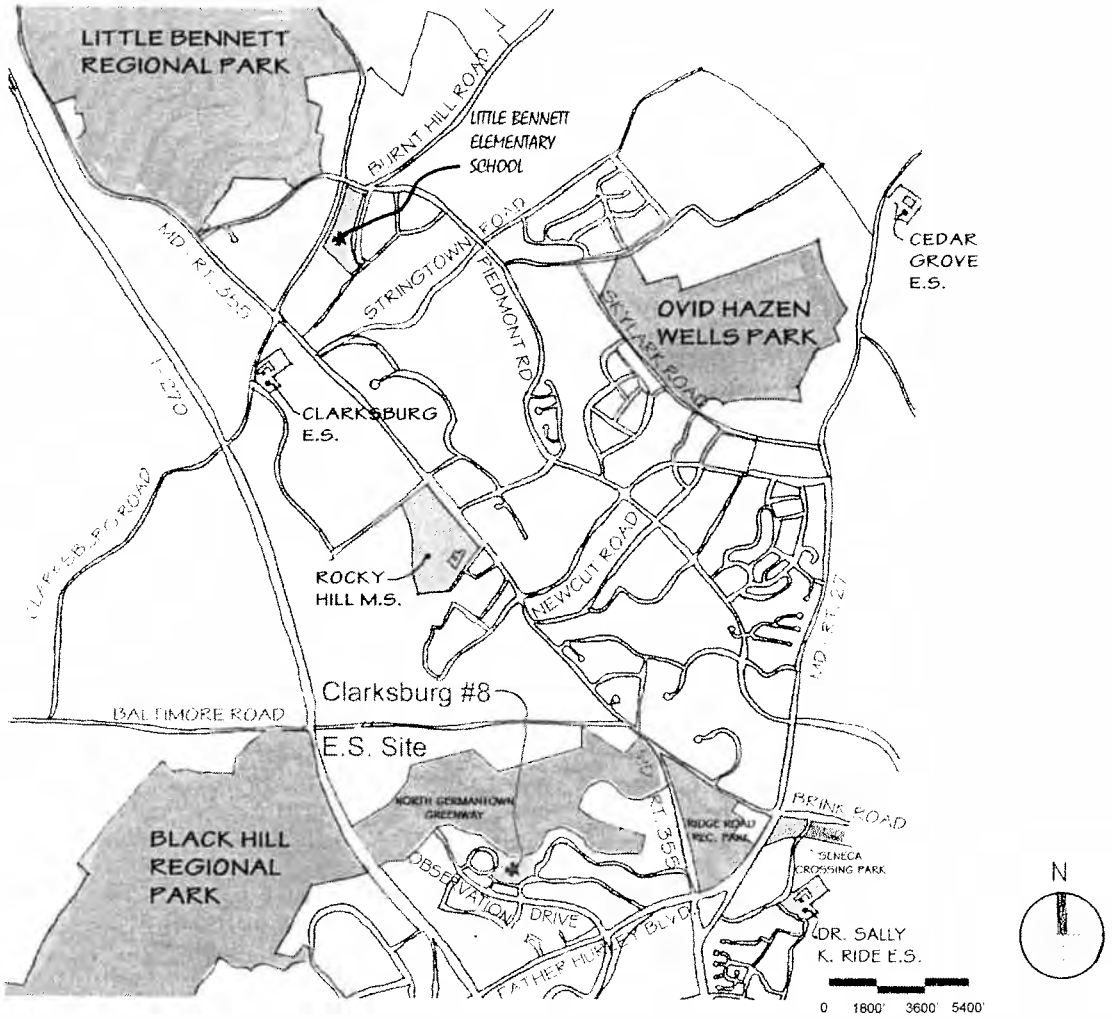
HVAC System:
The new building will be heated and air-conditioned by a two-pipe hydronic heat pump (HHP) system. The HHP system will consist of individual vertical water-cooled units for each classroom. Heating and cooling are provided by a geothermal ground source system. Ventilation for the classrooms will be provided by integrated energy-recovery units mounted on the roof.

Plumbing System:
Plumbing fixtures will comply with *Americans with Disabilities Act (ADA)* requirements. The balance of the sanitary sewer and domestic water systems will be provided in accordance with the latest Washington Suburban Sanitary Commission (WSSC) Plumbing and Fuel Gas Code and Regulations. Water-conserving plumbing fixtures will be used.

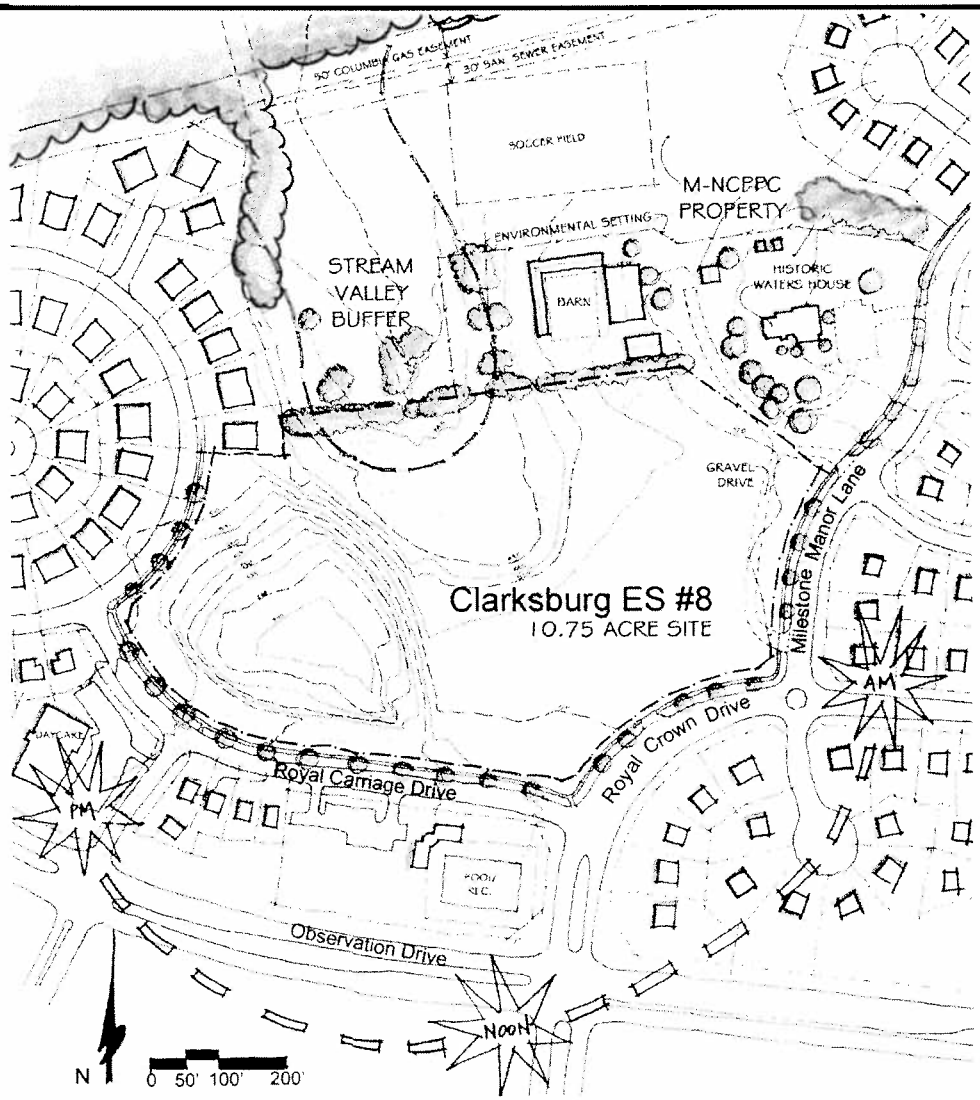
Fire Protection System:
The building will be fully-sprinklered complying with the *National Fire Protection Association Code (NFPA-13 and 14)* and will be provided with a voice-annunciated fire alarm system.

Energy Management Statement:
A primary design factor is the conservation of energy. The importance and consideration placed on energy conservation are reflected in the configuration and orientation of the building, the selection of materials, and the mechanical/electrical systems utilized. In addition, a direct digital automatic temperature control system will be provided to monitor and control all new HVAC equipment from a central building management system. The building will be designed to exceed ASHRAE 90.1-2010 energy requirements and International Building Code (IBC), Basic Energy Conservation codes as well as Montgomery County energy conservation codes. The design will incorporate the ANSI/ASHRAE Energy Efficient Design for new buildings.

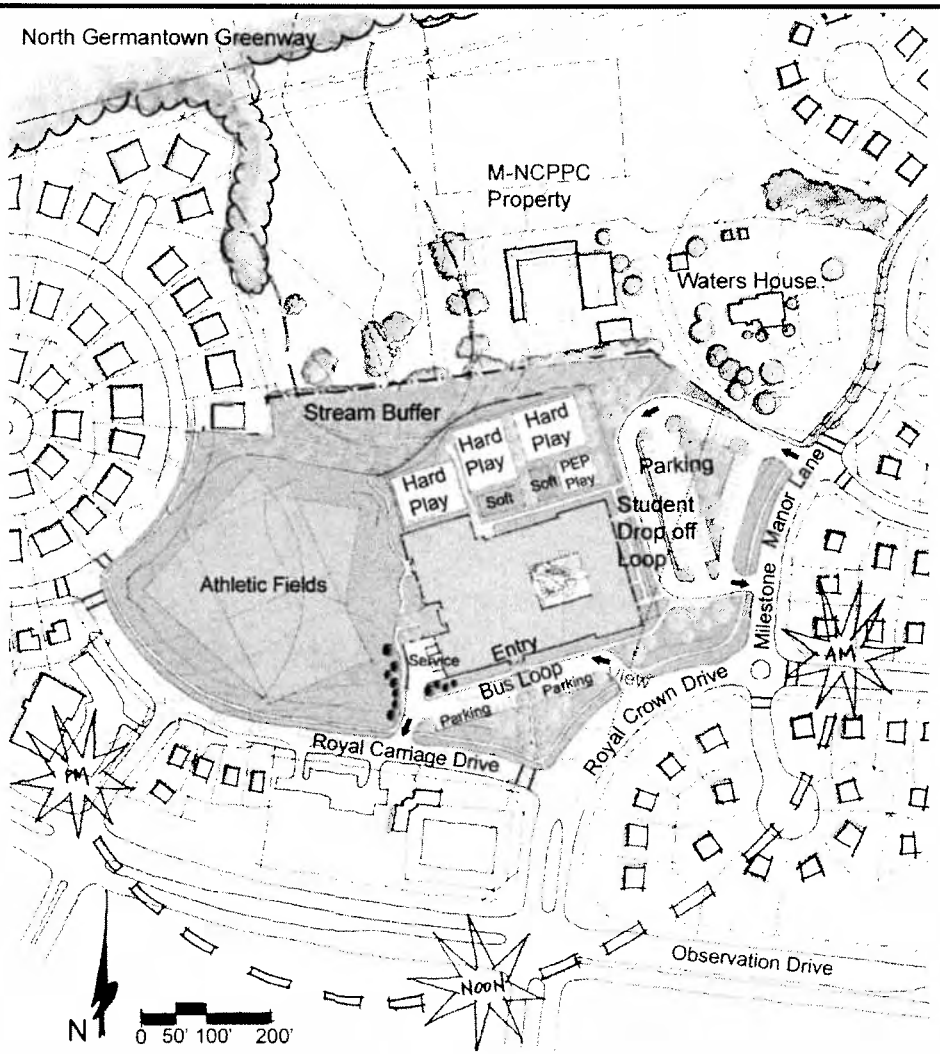
Vicinity Map



Existing Site Plan



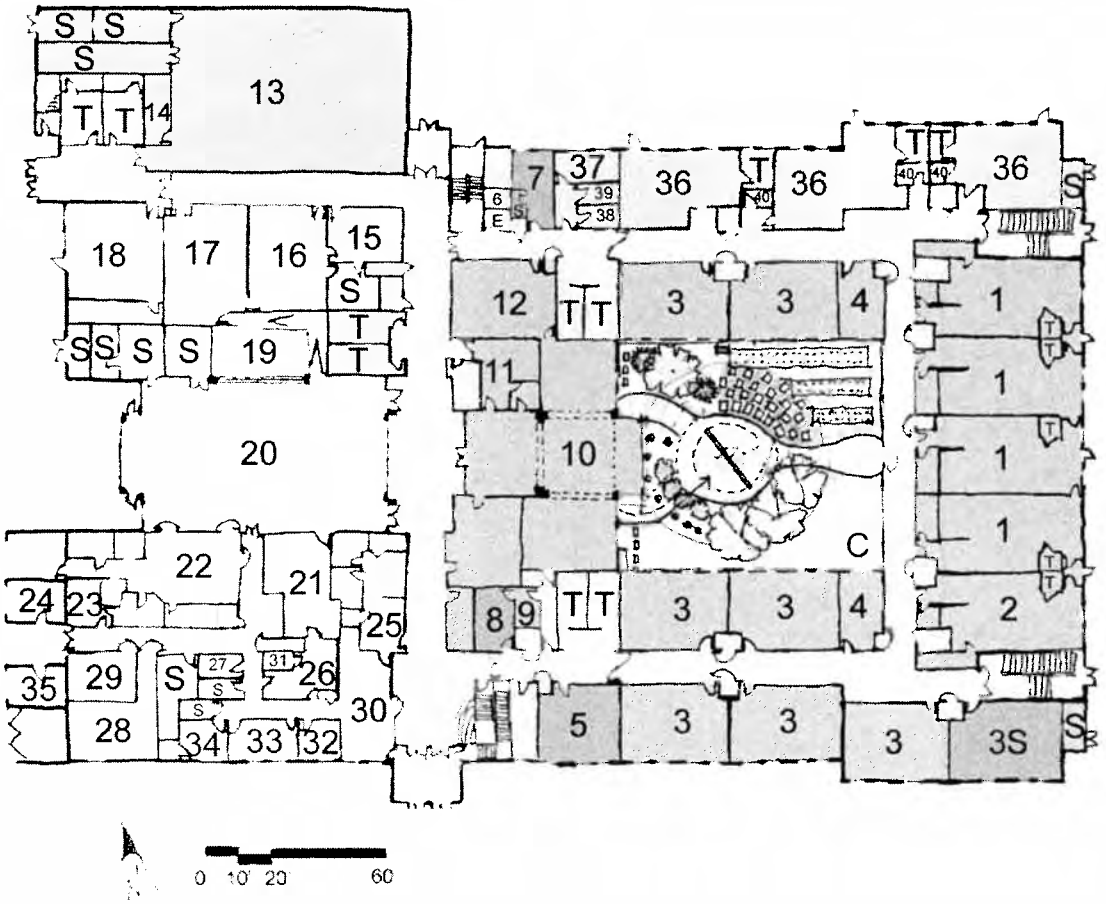
Proposed Site Plan



First Floor Plan

Legend

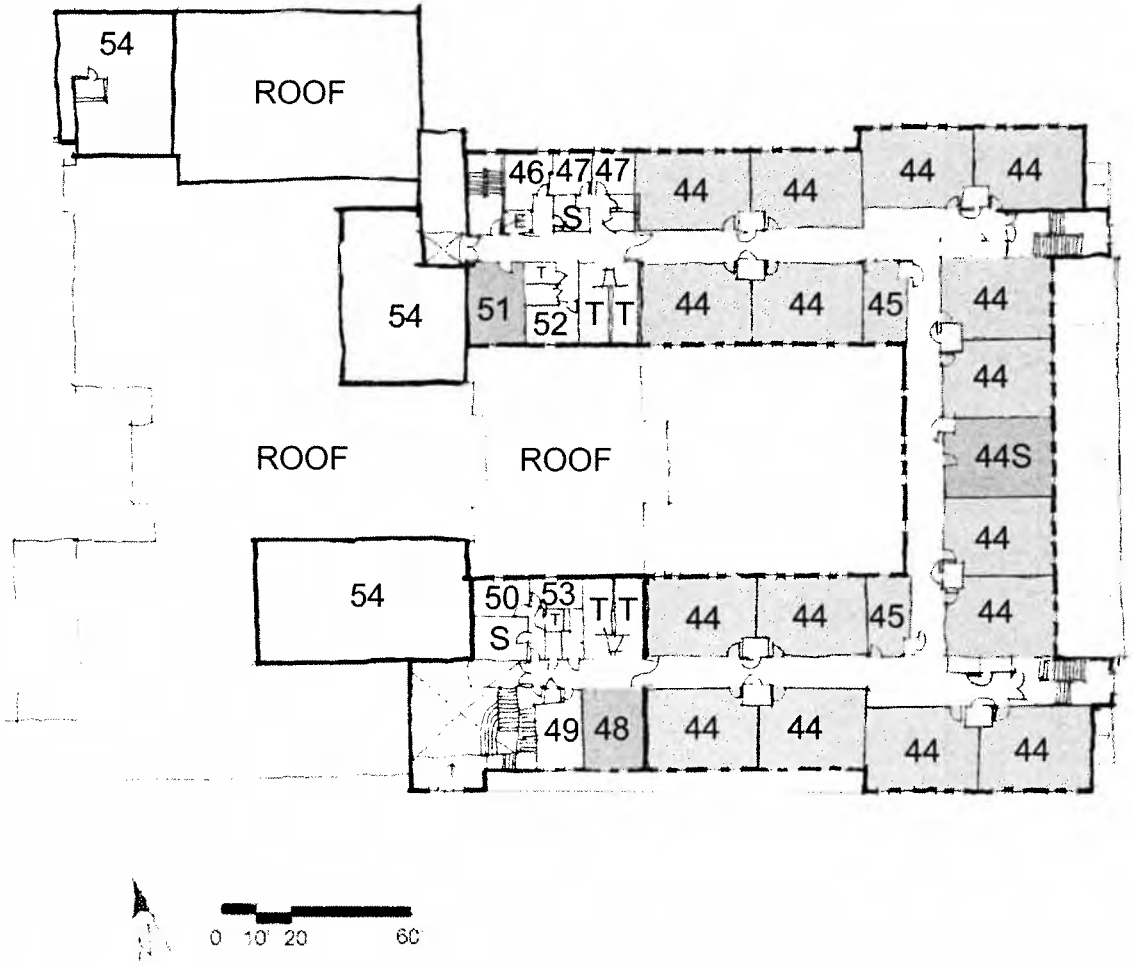
1	KINDERGARTEN CLASSROOM
2	PREKINDERGARTEN CLASSROOM
3	CLASSROOM
3S	CLASSROOM (SPECIAL ED)
4	BREAK-OUT ROOM
5	READING/LANGUAGE ARTS
6	ELEVATOR MACHINE ROOM
7	OCCUPATIONAL THERAPY /PHYSICAL THERAPY
8	SPEECH
9	CONTROL ROOM
10	INSTRUCTIONAL MEDIA CENTER
11	MATERIAL PREPARATION/ OFFICE
12	COMPUTER LABORATORY
13	GYMNASIUM
14	GYM OFFICE
15	INSTRUMENTAL MUSIC
16	MUSIC
17	DUAL PURPOSE ROOM
18	ART CLASSROOM
19	PLATFORM
20	MULTI-PURPOSE ROOM
21	STAFF LOUNGE
22	KITCHEN
23	BUILDING SERVICES
24	TRASH ROOM
25	HEALTH
26	WORK ROOM
27	RECORDS
28	MECHANICAL ROOM
29	ELECTRICAL ROOM
30	MAIN OFFICE
31	TELEPHONE ROOM
32	ASSISTANT PRINCIPAL'S OFFICE
33	CONFERENCE ROOM
34	PRINCIPAL'S OFFICE
35	RECYCLING ROOM
36	PEP CLASSROOM
37	PEP CONF. ROOM
38	PEP OFFICE
39	PEP KITCHENETTE
40	PEP OBSERVATION
T	TOILET
S	STORAGE
E	ELEVATOR
C	EDUCATIONAL COURTYARD



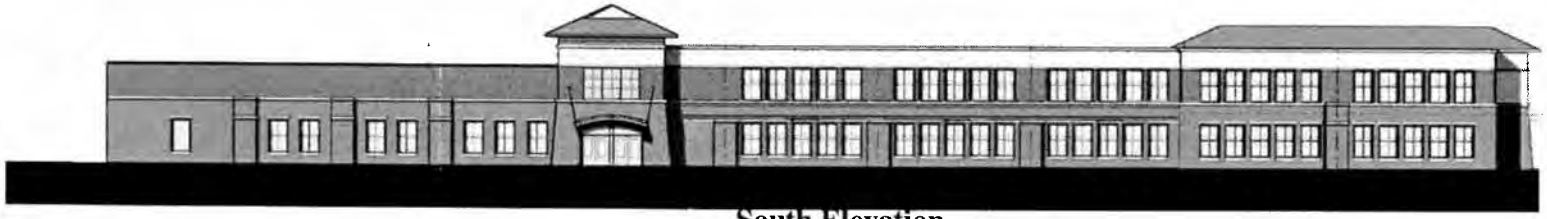
Second Floor Plan

Legend

44	CLASSROOM
44S	CLASSROOM (SPECIAL ED)
45	BREAK-OUT ROOM
46	TESTING/ CONFERENCE
47	OFFICE
48	ESOL
49	COUNSELOR'S OFFICE
50	STAFF DEVELOPMENT OFFICE
51	RESOURCE
52	OFFICE
53	WORKROOM
54	MECHANICAL MEZZANINE
T	TOILET
S	STORAGE
E	ELEVATOR



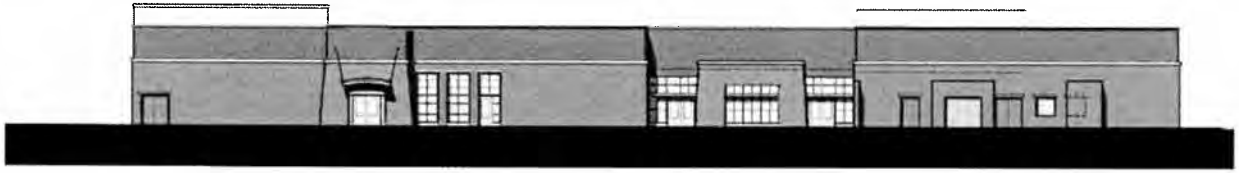
Elevations



South Elevation

North Elevation

East Elevation



0' 8' 16' 32'

West Elevation

Project Team, Schedule, and Estimated Construction Cost

Design Team Members

Architects
Civil Engineer
Structural Engineer
Mechanical/Electrical Engineer
Kitchen Consultant
LEED Consultant

Project Schedule

Preliminary Plans Brochure
Construction Documents Completion
Award Construction Contract
Project Completion

Estimated Construction Costs

Building Area: New Construction 87,867 square feet

Construction Cost: Base Building and Site: